

Serial No. 10/577,429

Docket No. P-0777

Amdt. dated May 6, 2009

Reply to Office Action of January 6, 2009

Amendments to the Specification:

Please replace the paragraph at page 5, line 3-14 with the following amended paragraph:

To achieve the above objects, there is also provided an apparatus for controlling an operation of a compressor of a refrigerator including: a microcomputer for outputting a select signal for selecting a rotation direction of a compressor according to an operation mode of a refrigerator when the operation mode of the refrigerator is selected by a user; an operation frequency converter for converting an operation frequency of a compressor according to a temperature in the refrigerator; and a clockwise/counterclockwise rotation signal generating unit for selecting a rotation direction of the compressor based on the select signal and varying a rotation speed of the rotation direction of the compressor based on the converted operation frequency[[b]].

Please replace the paragraph at page 15, line 23-page 16, line 2 with the following amended paragraph:

Meanwhile, when a standard operation mode, not the power-waving ~~saving~~ mode, is selected by the user, the compressor is rotated clockwise (step S26). In this case, if the temperature inside the refrigerator becomes lower than a pre-set temperature (.beta.), the compressor is rotated counterclockwise (steps S27 and S28).

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Please replace the paragraphs at page 25, line 20-page 26, line 5 with the following amended paragraphs:

For example, while the compressor is being rotated clockwise, the temperature sensor is operated only when and a temperature range of the temperature sensor is $-0.5^{\circ}\text{C}\sim+0.5^{\circ}\text{C}$, and outputs a signal for turning on or off the operation of the compressor.

According to the sensing result (step S72), if the rotation direction of the compressor is counterclockwise, ~~the a~~ second operation range of the temperature sensor of the refrigerator is selected (step S76) and controls the operation of the compressor according to the second operation range (step S77). The second operation range of the temperature sensor inside the refrigerator is set approximately $-0.3^{\circ}\text{C}\sim+0.3^{\circ}\text{C}$ according to experimentation.

Please replace the paragraph at page 29, line 13-17 with the following amended paragraph:

Thereafter, when the temperature inside the refrigerator reaches a temperature previously set by the user (step S94), the operation of the compressor is stopped (step S95). If, however, the temperature inside ~~the temperature refrigerator~~ does not reach, the pre-set temperature, the process returns to the step S93.

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Please replace the paragraph at page 31, line 3-7 with the following amended paragraph:

Thereafter, when the temperature inside the refrigerator reaches a temperature previously set by the user (step S104), the operation of the compressor is stopped (step S105). If, however, the temperature inside ~~the temperature refrigerator~~ does not reach the pre-set temperature, the process returns to the step S103.

Please replace the paragraph at page 34, line 16-19 with the following amended paragraph:

If power is re-supplied to the refrigerator after the predetermined time elapses, a compressor is rotated clockwise (step S137), and then, the compressor is ~~rotated clockwise~~ counterclockwise according to a temperature inside ~~the temperature refrigerator~~ (step S138).